

Why does gas build up in the oil line?

Gas will automatically be released from the oil when pressure in the oil line falls below the atmospheric pressure resulting in a vacuum (negative pressure).

The quality, temperature and viscosity of the oil will also play a determining role in the amount of gas released.

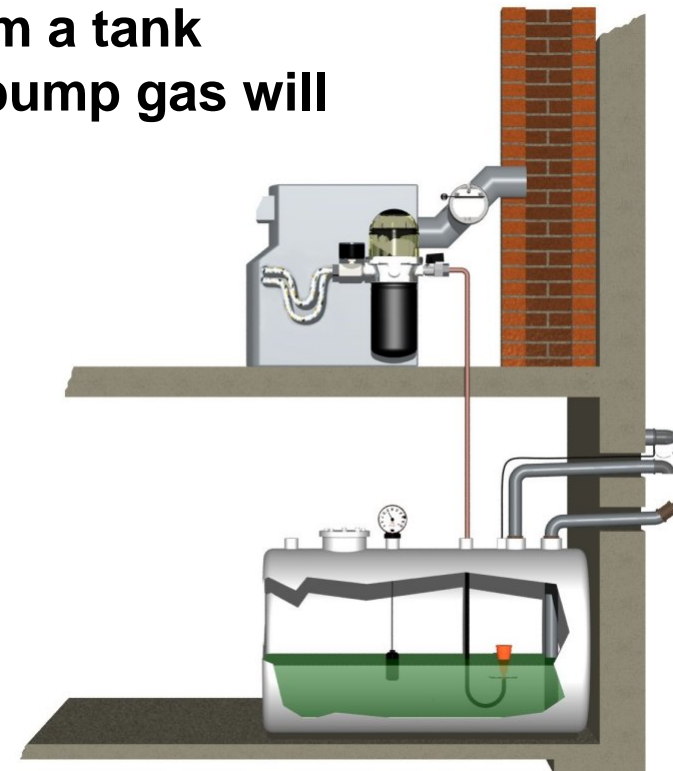
The higher the vacuum the more gas that will be released



When is there a vacuum (negative pressure) in the oil line?

When oil must be drawn up from a tank lying below the level of the oil pump gas will be released.

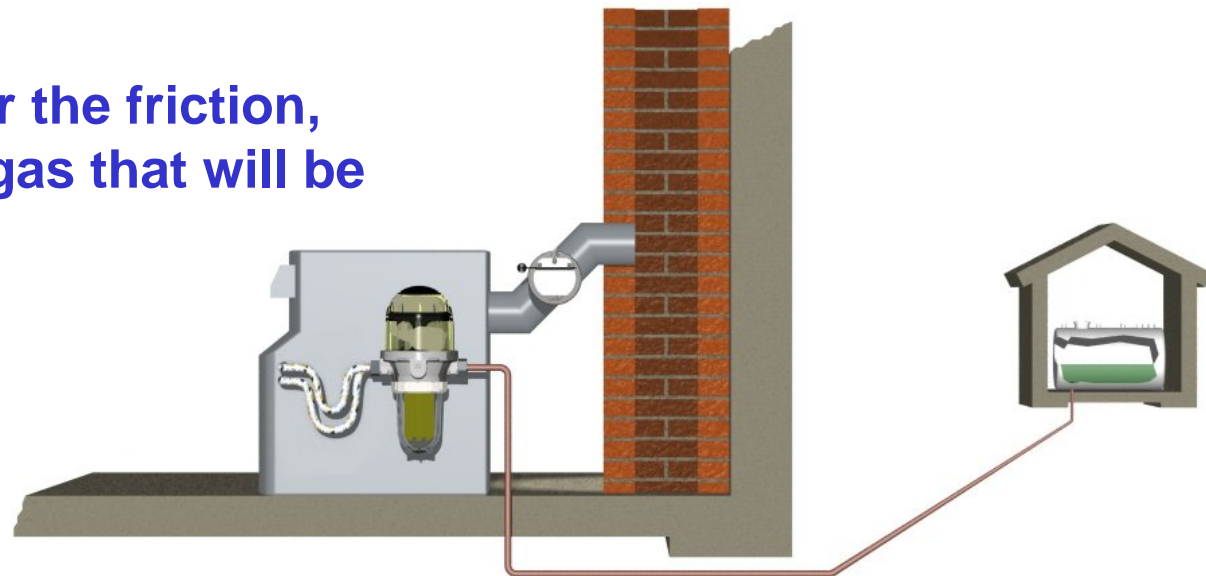
The higher the oil is lifted, the more gas that is released.



When is there a vacuum (negative pressure) in the oil line?

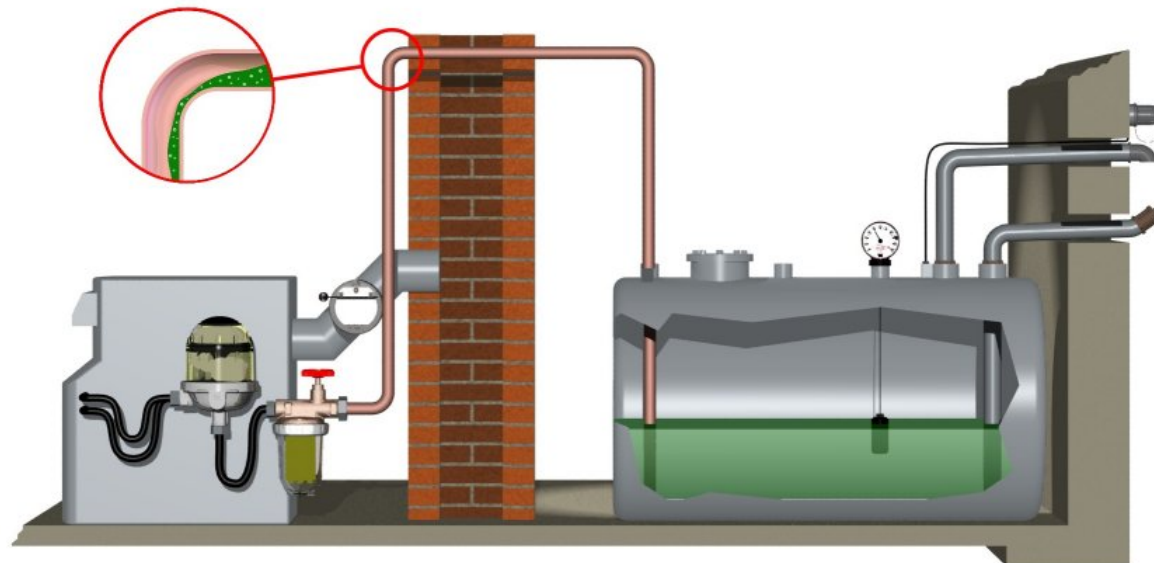
Gas is also released when friction in long oil lines causes a vacuum (negative pressure) to build in the oil line.

The higher the friction, the more gas that will be released.



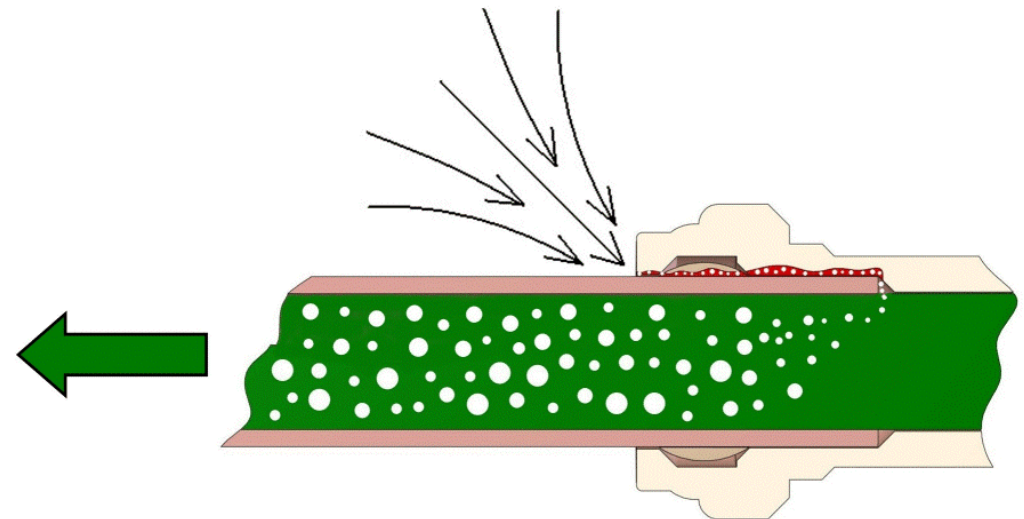
Why do pockets of air/gas form in oil lines?

If the dimension of the feed line is too large (too coarse for needed oil flow), gas pockets will develop as the siphon effect is lost.



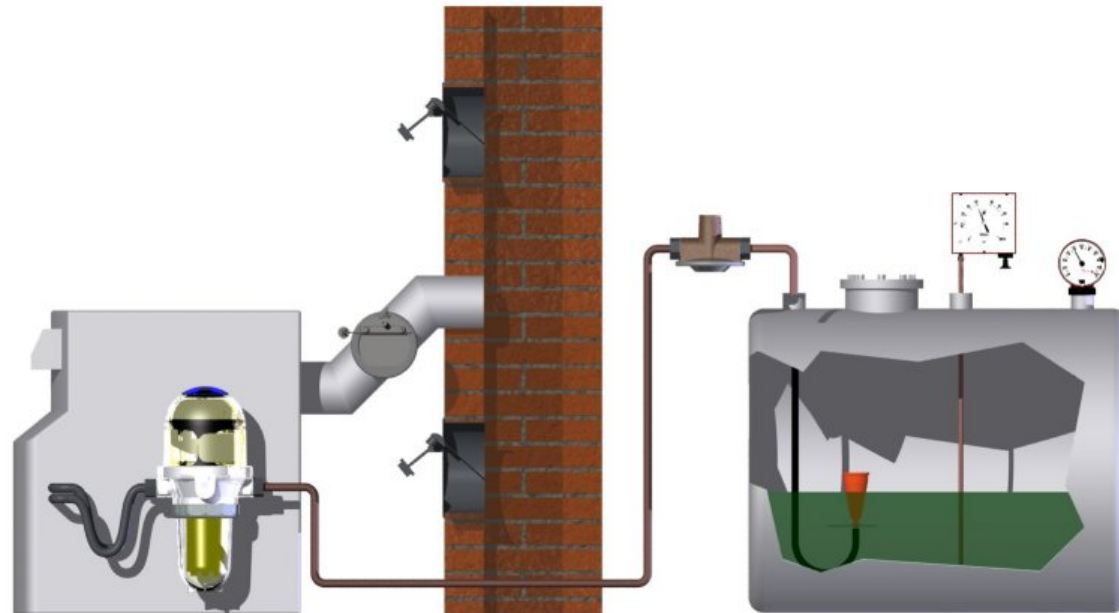
How does air enter an oil feed line?

Air will enter the system if the feed line is not 100% tight in all connections or if the tank is run to empty.



One-pipe system **with** Tigerloop®

The optimal solution for reliable, environmentally safe and cost effective oil heating.



Tigerloop® advantages

De-aerated, gas-free oil to the burner.

- **Reliable heating operation**
- **No dripping from the nozzle**
- **Less soot build up**
- **Higher efficiency / cleaner combustion**
- **Reduced oil consumption**
- **Easy trouble shooting as flow of oil is visible in Tigerloop®**



Tigerloop® advantages

Only the amount of oil that is actually burned will be drawn from the tank.

- Lower flow of oil
- Less sludge in the system, reducing risk of nozzle and filter clogging
- Better oil filtration
- Extends life of filter insert
- Less soot build up



Tigerloop® advantages

Eliminates the need for a return line to the tank.

- **Eliminates risk of dirt/sludge being released from tank**
- **No risk for return line leakage**
- **Eliminates potential environmental damage**
- **Easier installation**



Tigerloop[®] advantages

The working temperature of the oil pump is used for pre-heating the oil to at least room temperature.

- Eliminates problems associated with cold oil
- Cleaner combustion
- Reduced oil consumption



For the sake of the environment

Environmental regulations and the development of products like the Tigerloop® are eliminating the use of two-pipe systems.

A number of countries in Europe have already identified the risks of two-pipe systems and established laws that forbidden its use.



The new Tigerloop® makes oil heating even more safe and effective

Tigerloop® Original



Tigerloop® Combi



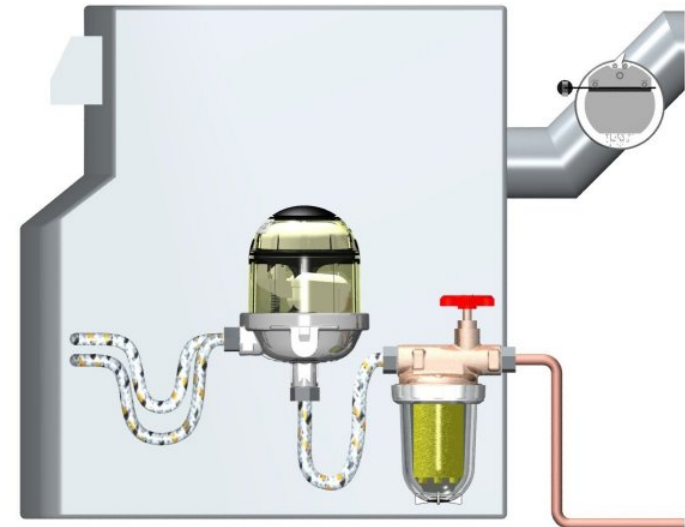
Tigerloop® Plus



The New Tigerloop® Original

To be combined with a complementary oil filter.

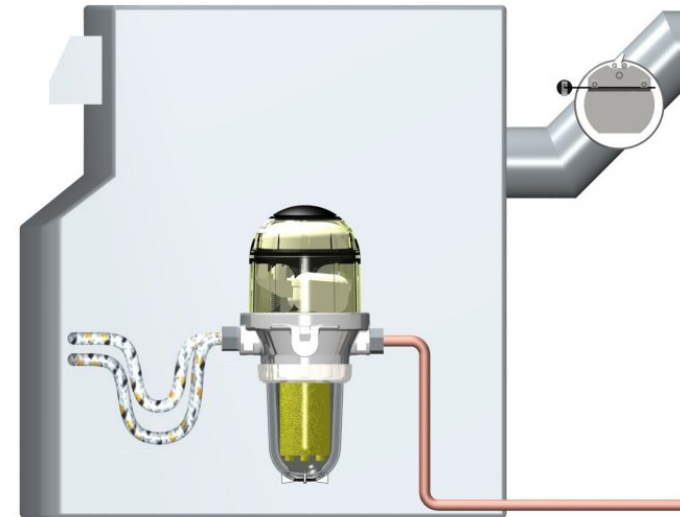
Model No.	Pump connections	Tank connection
TON110I	1/4" female thread	1/4" female thread
TON110A	3/8" male thread	1/4" female thread



The New Tigerloop® Combi

Includes a combined high-quality oil filter.

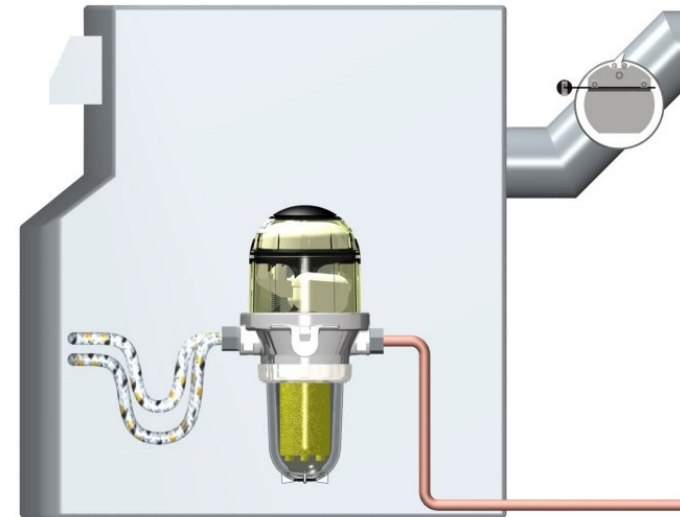
Model No.	Pump connections	Tank connection
TCN110I	1/4" female thread	1/4" female thread
TCN110A	3/8" male thread	1/4" female thread



The New Tigerloop® Combi

Advantages:

- Possible to select different filter inserts depending on need
- Fewer installation connections
- Less risk for leakage
- Easier to install
- Filter inserts should be replaced before every heating season



Oil Heating Developments

- New oil qualities with low sulphur content
- High efficiency burners for optimal combustion with minimal discharge of harmful particles
- Oil burners with blue-flame technology
- Oil boilers with condensation technology

These developments have made burners in general more sensitive for dirt/sludge and air, which has increased requirements for cleaner, air-free oil.



The New Tigerloop® Plus

Includes a combined spin-on filter, shut-off valve and vacuum gauge.

Model No.	Pump connections	Tank connection
TPN110I	1/4" female thread	1/4" female thread
TPN110A	3/8" male thread	1/4" female thread

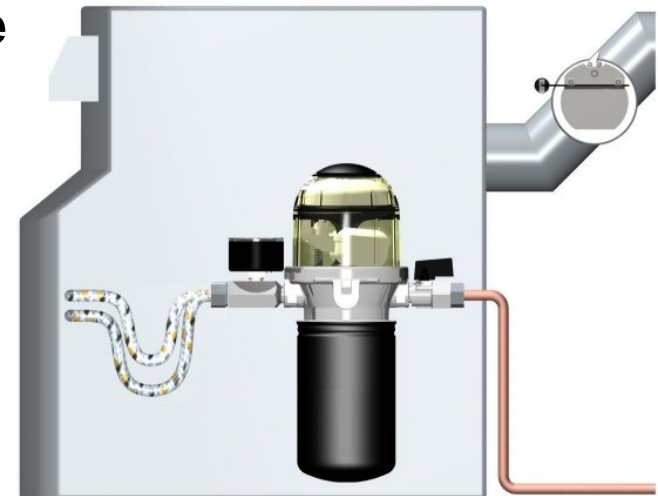
Developed to meet the highest demands for cleaner, air-free oil.



The New Tigerloop® Plus

Advantages:

- Convenient, all-in-one solution
- Vacuum gauge for control and easy trouble shooting
- Shut-off valve for easy service
- Spin-on filter for the toughest filtration demands



The New Tigerloop® Plus

Spin-on paper filter advantages:

- Huge filtration area (1850 cm²)
- Finest filtration grade (20 micron)
- Simple to replace
- The oil filter should be changed when the vacuum gauge reading falls below -0,4 bar or at 2-year intervals

